

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/13001

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H01Q1/24 H04B1/38 H04M1/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01Q H04B H04M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/25769 A (ERICSSON TELEFON AB L M ;ALI MOHAMMOD (US)) 28 March 2002 (2002-03-28) page 7, line 16 - page 10, line 21; claims 1,19,22; figures 4,5	1,2,4-7, 19-21
X	US 6 272 356 B1 (DOLMAN RODNEY A ET AL) 7 August 2001 (2001-08-07) column 5, line 24 - column 8, line 13; figures 2,3,8	1,21
A	US 4 992 799 A (GARAY OSCAR M) 12 February 1991 (1991-02-12) column 1, line 46 - column 2, line 24; figures 1,2	1,21
	----- -/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- *Z* document member of the same patent family

Date of the actual completion of the international search

6 April 2004

Date of mailing of the international search report

15/04/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Van Dooren, G

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/13001

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>WO 00/28617 A (ERICSSON INC) 18 May 2000 (2000-05-18) page 5, line 3 - page 7, line 22; figures 1-5</p> <p>-----</p>	1,21
A	<p>US 6 307 511 B1 (MAARTENSSON DAG ET AL) 23 October 2001 (2001-10-23) column 4, line 50 - column 5, line 12; figures 1-5</p> <p>-----</p>	1,21

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/13001

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0225769	A	28-03-2002	AU 8531501 A WO 0225769 A1	02-04-2002 28-03-2002
US 6272356	B1	07-08-2001	NONE	
US 4992799	A	12-02-1991	AT 114078 T DE 69014128 D1 DE 69014128 T2 EP 0500548 A1 JP 2558181 B2 JP 5501333 T WO 9105373 A1	15-11-1994 15-12-1994 01-06-1995 02-09-1992 27-11-1996 11-03-1993 18-04-1991
WO 0028617	A	18-05-2000	US 6011519 A AU 1342600 A CN 1333934 T DE 19983701 T0 JP 2002529998 T TW 443000 B WO 0028617 A1	04-01-2000 29-05-2000 30-01-2002 08-11-2001 10-09-2002 23-06-2001 18-05-2000
US 6307511	B1	23-10-2001	SE 511131 C2 AU 749390 B2 AU 9769298 A CN 1123088 B EP 1027749 A1 JP 2001523056 T SE 9704051 A WO 9925042 A1 TW 419862 B	09-08-1999 27-06-2002 31-05-1999 01-10-2003 16-08-2000 20-11-2001 07-05-1999 20-05-1999 21-01-2001